

TOWN OF WELLESLEY, MASSACHUSETTS

STORMWATER MANAGEMENT PROGRAM

For

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT FOR STORM WATER DISCHARGES
FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

**PREPARED FOR THE
U. S. ENVIRONMENTAL PROTECTION AGENCY**

**Department of Public Works
Engineering Division
March 10, 2003**

INTRODUCTION

The purpose of this program is to reduce the discharge of pollutants from the MS4 to the maximum extent practicable; protect water quality, and satisfy the water quality requirements of the Clean Water Act and Massachusetts Water quality Standards.

The Town of Wellesley is the owner and operator of a small municipal separate storm sewer system in the Commonwealth of Massachusetts. Wellesley has been determined by U.S. Bureau of the Census to be located within the boundary of an "urbanized area". Therefore, under the requirements of the Clean Water Act and the U.S. EPA's Storm Water Phase II Program, the Town is required to obtain a NPDES permit for its stormwater discharges. The Town will seek permit coverage under the NPDES General Permit for Small Municipal Separate Storm Sewer Systems in the States of Massachusetts and New Hampshire; Indian Country Lands in the States of Connecticut, Massachusetts and Rhode Island; and Federal Facilities in the State of Vermont. The Town will be filing, concurrently with the EPA and the Mass. DEP, form BRP WM 08A, NPDES Stormwater General Permit Notice of Intent for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s).

This program has been prepared to implement the minimum measures described in the NPDES General Permit for Storm Water Discharges From Small Municipal Separate Storm Sewer Systems, Part II, Massachusetts Small MS4 Storm Management Program.

This program shall supercede the Stormwater Management Plan developed in accordance with the Memorandum of Understanding (MOU) between the US Environmental Protection Agency (US EPA) and the Town of Wellesley, dated July 24, 2000. That plan and amendments were developed to meet the goal of restoring the Charles River to swimmable, fishable condition by Earth Day 2005 (Charles River 2005 Task Force). This new program builds upon the elements of that plan, but is far more comprehensive and ambitious in its goals.

A further requirement of EPA's Stormwater Phase II Program is the Town must have NPDES permit coverage for stormwater discharges associated with an industrial activity. Coverage will be sought under EPA's Multi-sector General Permit by filing Notices of Intent. A separate Stormwater Pollution Prevention Plan and Notice of Intent has been filed for the RDF.

PUBLIC EDUCATION AND OUTREACH

Responsible Department: Natural Resources Commission, Department of Public works

REQUIRED ELEMENTS:

A. Cover both industrial and residential activities including illegal dumping into storm drains.

1. The Town will implement a program of public awareness to educate the general public about NPDES Phase II, the Town's stormwater management program and their role in reducing pollutants in stormwater runoff.

1.1

TIME SCHEDULE: By winter 2004, prepare a brochure for mailing to residences, prepare posters for public buildings, publish information on Town's web site, post notice on local access cable TV and provide information in the DPW newsletter on various stormwater topics. In winter 2005, publish information regarding newly adopted Town regulations and zoning bylaws. Provide updated information annually or when significant milestones in program are achieved.

MEASUREABLE GOALS: Brochures mailed to every residence. CATV coverage weekly during each spring, posters in all public buildings updated annually. 100% permitting compliance with town regulations and bylaws.

1.2

2. A catch basin stenciling program is being proposed under the illicit discharge detection and elimination minimum control measure. Public education measures will consist of alerting residents to what the stenciling crews are doing and the message that is being conveyed. A citizen watch or hotline will be established to allow residents to report incidents of illegal dumping.

2.4

3.6

TIME SCHEDULE: Catch basin stenciling strategy established winter 2004, information disseminated to public spring 2004, stenciling during spring - summer through 2007.

MEASUREABLE GOALS: Stenciling completed by spring 2008, the number of basins stenciled, no visual observation of pollutants by catch basin cleaning crews beginning 2005.

1.3

3. A pesticide awareness campaign is ongoing. This program is being implemented by the Town's pesticide awareness coordinator. The goals are to reduce the use of pesticides in lawns and gardens and encourage organic

land care through public education. While the emphasis of the campaign has been education as to the health hazards of exposure to pesticides, focus will also be placed on pollution of storm water runoff.

TIME SCHEDULE: Ongoing throughout permit period.

MEASUREABLE GOALS: Increased use of organic gardening techniques, reduction in pesticides and toxic chemicals measured in impaired water bodies.

1.4

4. A household hazardous waste collection day is held annually. Coordination of this event and public awareness is the responsibility of the Town's Department of Public Works. In addition, the Town's Recycling and Disposal Facility routinely accepts waste oil, batteries and paint. Public education will focus on how illegal or accidental discharge of these materials can pollute storm water runoff and the proper disposal of these materials.

TIME SCHEDULE: Ongoing program held annually in spring.

MEASUREABLE GOALS: Brochures or bill stuffers mailed to all to residences, annual increase in number of vehicle bringing materials to annual collection day, significant amounts of materials collected, reduction in toxic chemicals measured in impaired water bodies.

1.5

5. The Town has an ongoing pond restoration program. This program was initiated when it was determined that surface runoff and groundwater from residential homes and on-site disposal systems not entirely within Wellesley were carrying pollutants into streams and ponds contributing to eutrophication. At the onset of the program, brochure were mailed to every residence in the Town to provide awareness on problems caused by the use of inorganic fertilizers and phosphate detergents. Periodically, the program will continue to disseminate this information.

TIME SCHEDULE: Remailing of bill stuffers during spring 2004. Follow up brochure to abutters of restored ponds. Information published in DPW newsletter annually.

MEASUREABLE GOALS: Reduction of nutrient concentrations in ponds by lack of visible plant growth within the ponds, which utilize nutrients as a source of food.

1.6

6. The Town will implement a program of public awareness to encourage the reduction or elimination of hazardous chemicals and promote good housekeeping measures at commercial and industrial activities. Initial target audiences will include automotive service centers, restaurants and

businesses that maintain outdoor dumpsters. A brochure will be prepared and mailed to businesses.

TIME SCHEDULE: Letters with brochures mailed to target audiences fall 2004, expand coverage and remail fall 2006.

MEASUREABLE GOALS: Reduction in visible pollutants observed by catch basin cleaning crews, and reduction in toxic chemicals measured in impaired water bodies.

1.7

7. Fuller Brook has been identified as an impaired water body on the 303(d) list. It has been well documented that the excessive duck population at the Town Hall duck pond is a significant contributor to this impairment. The popularity of feeding ducks has attracted a population far greater than can be supported in a natural setting. While structural controls are expected to be implemented to provide some treatment and encourage migration to other habitats, public education is necessary to discourage or eliminate feeding as an approach to reducing the waterfowl population.

TIME SCHEDULE: Signs are posted at the feeding area, information has been locally disseminated and posted on local access CATV and on the Town's web site. Ongoing throughout permit period.

MEASUREABLE GOALS: Reduction in duck population at Town Hall Duck Pond to 8 breeding pairs. Substantial reduction of fecal coliform measured in Fuller Brook.

B. Coordination with local groups. The following organizations will be contacted for possible assistance or partnerships in providing public education and outreach:

1.8

1. Charles River Watershed Association - Stream Team
2. Friends of Morses' Pond
3. Friends of Recycling
4. Local Boy Scout groups
5. Civic Organizations (Rotary Club, Kiwanis Club)

TIME SCHEDULE: Initial meetings, spring 2004.

MEASUREABLE GOALS: Participation by as many of the above mentioned groups as possible.

C. Materials for outreach/education. The following materials will be utilized to provide public education and outreach:

1. Brochures mailed to residences and businesses

2. Brochures mailed with utility bills
3. Brochures distributed in public buildings or with building permits
4. Articles in quarterly DPW newsletter
5. Postings on official Town web site.
6. Catch basin stenciling
7. Local access cable TV
8. Posters on bulletin boards in public buildings

D. The following topics will be included for outreach/education.

1. NPDES Phase II program for small municipalities and the public sector.
2. New stormwater system regulations and erosion & sedimentation control measures during construction.
3. Proper disposal of pollutants and hazardous materials and citizen watch for signs of illegal dumping.
4. Reduction or elimination of the use of hazardous chemicals and good housekeeping measures at commercial and industrial activities.
5. Pesticides awareness.
6. Household hazardous waste collection day.
7. Proper use of fertilizers and organic land care.
8. Pet waste management.
9. Reduce or eliminate feeding of ducks at Town Hall Duck Pond.

PUBLIC INVOLVEMENT AND PARTICIPATION

Responsible Department: Department of Public Works

REQUIRED ELEMENTS:

A. Provide opportunity for the public to participate in the development, implementation and review of the storm water management program.

2.1

1. Public hearings will be held prior to adoption of the stormwater system regulations and the erosion and sedimentation control regulations governing construction activities. These regulations are undergoing final review.

TIME SCHEDULE: Public hearings for adoption of stormwater system regulations to be held fall 2003.

MEASUREABLE GOALS: Input from public received, regulations finalized and approved by winter 2005.

2.2

2. Site plan review is a zoning bylaw. Proposed changes require a public hearing and two-thirds favorable vote of Town Meeting.

TIME SCHEDULE: Public hearing for zoning changes to be held winter 2004, town meeting consideration spring 2004.

MEASUREABLE GOALS: Input from public received, bylaws finalized and approved by summer 2004.

B. Volunteers will be sought to organize or participate in the following activities:

2.3

1. Catch basin stenciling

2.4

2. Stream clean up (Adopt-a-stream)

3. Citizen watch for illegal dumping - establish hot line.

TIME SCHEDULE: Informational meeting with potential volunteers held winter 2004. Hot line established winter 2004. Boy Scouts or civic organizations contacted about catch basin stenciling and stream clean up winter 2004. Stream clean ups begin spring 2004.

MEASUREABLE GOALS: Input received from public, volunteer groups formed, stream clean up is being conducted and measurable amounts of debris are being removed, number of incidents of illegal dumping reported to hot line.

ILLICIT DISCHARGE DETECTION AND ELIMINATION

Responsible Department: Department of Public Works, Network and Information Systems (GIS)

REQUIRED ELEMENTS:

A. Develop a storm water system map showing locations of all outfalls and names of all waters that receive discharges from those outfalls.

The map is nearing completion using ESRI ArcGIS software. The map will also depict all catch basins, manholes and structural BMP's connected to the Town's stormwater system. Field work is underway to verify locations of outfalls and connections to catch basins. All open channels, streams and the Charles River are being visually inspected. The map is part of an integrated town wide GIS project that will allow additional data layers to be superimposed. These layers will be helpful in tracing the sources of illicit discharges. Among others, the layers will include buildings, parking lots, wetlands, zoning uses, and sanitary sewer mains as well as on site disposal systems. Attribute table data may be used to determine SIC codes of commercially zoned locations.

TIME SCHEDULE: Field work and verification of map to be completed by fall 2003. Final adoption of GIS map layer by spring 2004.

3.1

MEASUREABLE GOALS: Map completed and showing 100% of outfalls.

B. Develop an ordinance or other regulatory mechanism to effectively prohibit non-stormwater discharges into the system. The regulatory mechanism must provide for appropriate enforcement procedures and actions.

Regulations have been developed to control use of the Town's storm water system. They will prohibit non-stormwater discharges, but will allow private drain connections for uncontaminated ground water, roof runoff or treated stormwater. Procedures for inspection and enforcement are included. Enforcement measures from requiring immediate corrective action to eliminate the illicit discharge up to a \$50.00 per day fine for non-compliance. These regulations are in draft form and are currently being reviewed by the Town's Stormwater Master Plan consultant.

TIME SCHEDULE: Public hearings for adoption of stormwater regulations to be held fall 2003. Regulations finalized and approved by winter 2005.

3.2

MEASUREABLE GOALS: 100% permitting compliance with stormwater regulations.

C. Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, into the system:

The plan is to visually inspect all 330 outfalls. Priority areas will be identified so that selected outfalls will be inspected for dry weather discharges. Water quality modeling software is being utilized to identify potential areas of pollutant loading. The model will be calibrated by field sampling. Dry weather sampling will be conducted initially in priority areas. Samples will be collected at least 72 hours since ending of rainfall. Initially the following tests will be conducted: odor, visual appearance, ammonia, conductivity, and detergents. Further testing for pollutants of concern will be conducted on outfalls to impaired water bodies as identified on the 303 (d) list. Mass DEP will provide guidance on specific pollutants. Since TMDL's have not been established for these waterways, specific control measures and BMP's will be developed based on the results of testing.

Tracing of identified illicit discharges will be conducted by the Town of Wellesley, Department of Public Works. The following methods will be used to locate the source of illicit discharges: sampling upstream manholes, comparison of zoning uses and likely industrial wastes by SIC code to identified pollutants, T.V. camera inspection to look for illegal tie ins, smoke and dye testing, and observation or following up on reports of illegal dumping. The Town will use one or more of the following methods to remove or disconnect the source of the illicit discharge: voluntary compliance, enforcement by local, state or federal environmental laws, repairs to the stormwater system by Town forces, or intensive enforcement of illegal dumping through the proposed ordinance. After the removal of the source of the pollutant, follow up sampling will be conducted.

3.3 TIME SCHEDULE: Inspection and sampling of priority outfalls completed by fall 2003. Water quality modeling software in use by spring 2004.

3.4 MEASUREABLE GOALS: All 330 outfalls inspected by summer 2006, most identified illicit discharges eliminated by summer 2007.

3.5

The following programs are ongoing to reduce sanitary sewer overflows caused by the discharge of stormwater to the sewer system:

1. Detection and disconnection of residential basement sump pumps from sanitary sewer system. There are about 200 sump pumps that have been identified to be disconnected. A letter will be sent to each property owner during summer 2003.
2. T.V. inspection and sealing of sanitary sewer mains and manholes to eliminate inflow and infiltration. This work is being accomplished at the rate of about 5 miles of sewer main per year.

D. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper waste disposal.

3.6

1. A brochure will be developed for distribution to contractors who have obtained building permits or street opening permits.

2. A catch basin stenciling program will be established.

3.7

3. Training for public employees to observe and report illicit discharges.

TIME SCHEDULE: Brochure for contractors to be developed by summer 2005. Catch basin stenciling strategy established winter 2004, information disseminated to public spring 2004, stenciling during spring - summer through 2007. Training for public employees to be conducted winter 2005.

MEASUREABLE GOALS: Stenciling completed by spring 2008, reduction in pollutants observed by catch basin cleaning crews beginning 2005. Public employees are observing and reporting incidents of illegal dumping.

The following BMP'S are being utilized or are being proposed under other minimum control measures:

1. Illicit discharge and illegal dumping are specifically prohibited by the proposed stormwater regulations.

2. The DPW newsletter, which is published three times a year, will periodically contain information on illegal dumping in storm drains.

3. The annual household hazardous waste collection day encourages residents to dispose of materials properly.

4. A hot line for reporting incidents of illegal dumping and illicit discharges from outfalls will be established.

5. Brochures will be mailed to automotive service centers, restaurants and businesses that maintain outdoor dumpsters.

E. Allowable non-stormwater discharges will be considered to be significant contributors of pollutants and addressed if the Town's stormwater consultant makes that recommendation as a result of inspection and sampling of the drainage system.

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

Responsible Department: Building Department, Planning Board, and Department of Public Works

REQUIRED ELEMENTS:

A. Develop an ordinance or other regulatory mechanism to require sediment and erosion control at construction sites.

Regulations have been developed to control erosion and sedimentation during construction activities. The regulations are applicable to construction projects of all sizes. Projects that involve clearing of one acre or more or have slopes in excess of 15% will require an approved erosion and sedimentation control plan and periodic inspections. These regulations are in draft form and are currently being reviewed by the Town's Stormwater Master Plan Update consultant.

4.1

TIME SCHEDULE: Public hearings for adoption of erosion and sedimentation controls regulations to be held fall 2003. Regulations to be finalized and approved by fall 2004.

MEASUREABLE GOALS: 100% permitting compliance with erosion and sedimentation control regulations. Construction sites have controls in place and inspections are being conducted.

B. Provide sanctions to insure compliance with the program.

The proposed regulations have provisions to suspend or revoke a building permit issued in conjunction with the project. A \$50.00 per day fine may be imposed for violating provisions of the proposed regulations.

C. Requirements for construction site operators to implement a sediment and erosion control program including BMP's that are appropriate for the conditions at the construction site.

Under the proposed regulations, projects that involve clearing one acre or more or have slopes in excess of 15% will require that an erosion and sedimentation control plan be prepared by a registered professional engineer, licensed in the Commonwealth of Massachusetts. The submittal shall include a narrative listing the control measures to be implemented and include details of BMP's appropriate to

the proposed project. The plan shall be reviewed and approved by the Town of Wellesley. For the purposes of guidance the proposed regulations include a suggested menu of BMP's for minimizing clearing, revegetation, controlling runoff and housekeeping.

D. Require control of wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary waste.

Projects that involve clearing one acre or more or have slopes in excess of 15% will require housekeeping measures as part of their erosion and sedimentation control plans. These measures will include the use of required BMP's that specifically address discarded building materials, concrete truck wash out, chemicals, litter, and sanitary waste (from temporary facilities).

E. Require procedures for site plan review including procedures which incorporate consideration of potential water quality impacts. Include procedures for preconstruction review.

Site plan review is currently limited to projects within flood hazard districts, projects within the jurisdiction of the wetlands protection act or non-residential projects meeting certain size thresholds. The Town will develop a program to expand site plan review to projects of development and redevelopment disturbing one acre or more. This will encompass more large scale residential projects. This BMP will expand the Town's ability to address post construction runoff issues as well as requiring the increased use of erosion and sedimentation control measures. The erosion and sedimentation control plan will be a required submittal to accompany proposed site plans. A change to the Town's zoning bylaw must be voted by the Annual Town Meeting.

All projects that have an approved erosion and sedimentation control plan will hold a preconstruction meeting. Prior to the beginning of construction, an inspection by the Town will be made of erosion and sedimentation control measures in place.

4.2

TIME SCHEDULE: Public hearing for zoning changes to be held winter 2004, town meeting consideration spring 2004.

5.1

MEASUREABLE GOALS: Input from public received, bylaws finalized and approved by summer 2004. 100% permitting compliance with proposed projects.

F. Procedures for receipt and consideration of information submitted by the public.

Under existing bylaws, projects within flood hazard districts, projects within the jurisdiction of the Wetlands Protection Act or non-residential projects meeting certain size thresholds are required to have a public hearing under Section XVIA of the Zoning Bylaw, Site Plan Approval. The public is notified through postings at the Town Hall, publication in local newspapers and registered letters to abutters. At the hearing, the public has the opportunity to provide input for consideration by the project proponents and the reviewing board. As stated above, this procedure will be expanded to encompass all projects that disturb one acre or more. Proposed erosion and sedimentation control plans will be a required submittal for Site Plan Approval. The public will then be afforded the opportunity to review and comment on these plans.

G. Procedures for inspections and enforcement of control measures at construction sites.

At the present time, the conservation administrator provides inspections and enforcement of control measures at construction sites subject to the Wetlands Protection Act. Procedures will be implemented to have the inspector of buildings administer the proposed erosion and sedimentation control bylaw. He will conduct inspections to insure implementation of approved erosion and sedimentation control plans. Larger projects will have a regular schedule of inspections. Under the authority of the proposed erosion and sedimentation control bylaw, he will also be empowered to conduct inspections of construction activities and can order the placement of controls that he may deem necessary.

TIME SCHEDULE: Regulations and enforcement authority of inspectors in place by fall 2004.

4.3

MEASUREABLE GOALS: Inspections of construction sites are being conducted. Reduced suspended solids are observed washing into streets.

POST CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

Responsible Department: Planning Board, Zoning Board of Appeals, Department of Public Works

REQUIRED ELEMENTS:

A. An ordinance or other regulatory mechanism to address post construction runoff from new development and redevelopment.

5.1

The zoning bylaw, Section XVIA - Site Plan Approval, will be amended to require site plan approval for all projects disturbing greater than one acre of land and discharging stormwater runoff into the municipal system. Projects will be required to comply with standards 2, 3, 4 and 7 of the Massachusetts storm water policy. The bylaw will include language to insure that projects that are less than one acre, but part of a larger common plan of development, will be subject to the proposed bylaw.

TIME SCHEDULE: Zoning bylaw to be drafted fall 2003, public hearing for zoning changes to be held winter 2004, Town Meeting consideration spring 2004.

MEASUREABLE GOALS: Input from public received, bylaws finalized and approved by summer 2004. 100% permitting compliance with proposed projects.

B. Procedures to insure adequate long term operation and maintenance of best management practices.

Reviewing authorities will encourage the use of low maintenance structural BMP's and proven non-structural BMP's to meet standard #4, 80% removal of total suspended solids. Site plan approval will also require an operation and maintenance plan to be prepared and responsibility determined for its initial and continued implementation. BMP's designed for detention or infiltration may also require inspection and maintenance. Annual reports will be submitted to the Town. The Department of Public Works will maintain records of inspections and maintenance of privately owned structural controls.

5.2

TIME SCHEDULE: Establish procedures for the Town to maintain records of privately owned structural BMP's by fall 2004.

MEASUREABLE GOALS: Inspection and maintenance performed on privately owned BMP's. Receipt by Town of annual reports.

C. Procedure to insure that any controls that are in place will prevent or minimize impacts to water quality.

Site plan approval shall be granted by the appropriate Town authority to construction projects that meet standard #4, removal of 80% of total suspended solids. Reconstruction projects as defined in standard #7 shall meet standard #4 to the maximum extent practicable. The applicant will be allowed to select BMP's to treat stormwater runoff that are appropriate to site conditions. For the purposes of calculating the removal rates, the Mass. DEP Stormwater Policy Table of Removal Rates shall be used. When proprietary structural BMP's are used, if removal rates have been established, it may also be used.

During construction, the Town will conduct inspections to insure proper installation of the structural BMP's. Post construction operation will also be observed to insure that impacts to water quality are actually being minimized. The Town may have to provide training for its inspectors, especially for the construction of vegetative BMP's.

All discharge points of privately owned stormwater collection and treatment systems shall be designed so that the Town may have access and authority to conduct inspections and/or sampling. Annual reports of inspections and maintenance of BMP's that are required as a condition of site plan approval shall be submitted to and reviewed by the Town.

5.3

TIME SCHEDULE: Ongoing after Town's legal authority is established by adoption of new zoning bylaw in summer 2004.

MEASUREABLE GOALS: Water quality BMP's being installed and functioning on approved projects of new development and redevelopment.

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Responsible Department: Department of Public Works

REQUIRED ELEMENTS:

A. Develop and implement a program with a goal of preventing and/or reducing pollutant runoff from municipal operations. The program must include an employee training component.

6.1

1. The Town shall evaluate its existing controls for reducing or eliminating discharges from roads, municipal parking lots, maintenance and storage yards, refuse transfer stations, salt storage locations, and snow disposal areas. The Town will be seeking NPDES permit coverage for stormwater discharges associated with an industrial activity. Coverage will be sought under EPA's Multi-sector General Permit by filing a Notices of Intent for the RDF.

TIME SCHEDULE: Notices of Intent for RDF submitted spring 2003. Inspection of DPW highway garage completed. Remainder of infrastructure to be inspected winter 2006.

MEASUREABLE GOALS: Reduction in pollutants from municipal operations.

2. Employee training will be conducted periodically for storage and handling of hazardous materials, vehicle refueling and washing, and preventive maintenance. The training shall include procedures to be followed.

6.2

TIME SCHEDULE: Training for DPW employees has been conducted. Refresher training for DPW employees will be conducted every other year beginning fall 2005.

MEASUREABLE GOALS: 100% attendance by DPW employees.

6.3

3. The Town has an ongoing program to remove aquatic weeds from Moses Pond.

TIME SCHEDULE: Ongoing each summer

MEASUREABLE GOALS: Reduction in invasive and nuisance aquatic weeds in Morses Pond. Non structural BMP's are expected to reduce nutrients resulting in less recurrence of weeds.

6.4

4. The Town has an ongoing pond restoration program to dredge and remove silt, organic sediments and aquatic weeds from selected ponds.

TIME SCHEDULE: Restoration of Rockridge Pond by summer 2003.
Restoration of Town Hall Duck Pond by fall 2005. Future work on additional ponds subject to funding availability.

MEASUREABLE GOALS: Reduction of nutrients and eliminations of algal blooms and fish kills.

6.5

5. The Town has spill prevention control plans for all above ground petroleum storage facilities and will conduct periodic training for spills.

TIME SCHEDULE: Conduct training in spill prevention procedures and conduct a deployment exercise for spill response every year beginning fall 2003.

MEASUREABLE GOALS: All spill response personnel are trained in spill prevention procedures and have participated in at least one deployment exercise.

6.6

6. The Town will be constructing a method of preventing vehicle washing water from entering catch basins at the DPW highway yard.

TIME SCHEDULE: Modifications to be completed fall 2004.

MEASUREABLE GOALS: No vehicle wash water is reaching the stormwater drainage system.

B. Include, at a minimum, maintenance activities for the following:

6.7

1. Parks and open space. Training shall include reducing the use of pesticides.

TIME SCHEDULE: Training for park and tree workers to be conducted fall 2003.

MEASUREABLE GOALS: Reduction in toxic chemicals measured in water bodies.

6.8

2. Fleet and building. The Town will review its procedures regarding the handling and storage of hazardous materials at municipal facilities. Whenever possible and subject to funding availability, the Town shall eliminate the outside storage of materials.

TIME SCHEDULE: Review of facilities to be conducted spring 2006.

MEASUREABLE GOALS: Hazardous materials not subject to storm water runoff. Additional spill prevention control plans prepared where necessary.

6.9

3. New construction and land disturbance. DPW maintenance crews will receive periodic training on procedures to prevent or reduce pollutant runoff during construction activities. Municipal operations are not exempt from zoning bylaws or stormwater regulations.

TIME SCHEDULE: Conduct training for DPW employees every other year beginning fall 2006.

MEASUREABLE GOALS: 100% attendance by DPW employees.

6.10

4. Storm water system maintenance. Catch Basin cleaning and street sweeping are ongoing activities. Inspection and maintenance of culverts, streams and headwalls are ongoing activities. Inspection and cleaning of pipes is only performed when there are reported problems. The Town will investigate innovative technologies to improve street sweeping.

6.11

TIME SCHEDULE: Catch basins are cleaned in the summer and fall of each year. Street sweeping is done annually each spring, commercial areas are swept weekly.

MEASUREABLE GOALS: Clean catch basins in critical areas annually. Inspect every basin at least every third year, clean when 60% full. Perform television inspection of stormwater system on an as needed basis.

C. Develop schedules for municipal maintenance activities

6.12

1. The Town will review and revise its schedules for street sweeping, catch basin cleaning and maintenance of the stormwater system.

TIME SCHEDULE: Review of schedules spring 2004.

MEASUREABLE GOALS: Revised schedules in place summer 2004.

D. Develop inspection procedures and schedules for long term structural controls.

1. The Town will inventory and establish procedures for inspection and maintenance of municipally owned structural controls.

6.13

2. The Town will establish procedures to maintain records of inspections and maintenance of privately owned structural controls.

5.2

TIME SCHEDULE: Establish procedures for the Town to maintain records of privately owned structural BMP's by fall 2004. The Town shall inventory and establish an inspection and maintenance plan for Town owned structural BMP's by winter 2004. The Town shall begin inspections of publicly owned BMP's by spring 2004.

MEASUREABLE GOALS: Inspections and maintenance being conducted and/or being monitored by Town.

DISCHARGES TO IMPAIRED WATERWAYS

All assessments are from proposed 2002 Massachusetts Integrated List of Waters Charles River watershed. NO TMDL'S HAVE BEEN APPROVED FOR THESE WATER BODIES. The pollutants of concern are vaguely identified on the 303(d) list. Mass DEP will provide assistance in clarifying the list. Outfalls will be tested for these pollutants to determine appropriate BMP choices. Once TMDL's are approved, the strategy may change. This portion of the stormwater management program will be further developed as the requirements are determined.

The Town Hall Duck Pond has been identified as a contributor of fecal coliform to Fuller Brook and the Charles River. This problem will be potentially addressed by structural controls to provide some treatment at the Duck Pond impoundment and public education to reduce the waterfowl population by discouraging feeding.

A. CATEGORY 2 - Attaining Some Uses. Others Not Assessed

1. Waban Brook

B. CATEGORY 4C - Impairment Not Caused By a Pollutant

1. Morses Pond
2. Lake Waban

C. CATEGORY 5 - Waters Requiring a TMDL. 303(d) list

1. Charles River (So. Natick) MA 72-06

Pollutants of Concern

Priority organics

Nutrients

Organic enrichment/low d.o.

Pathogens

Noxious aquatic plants

Turbidity

2. Lower Charles River MA 72-07

Pollutants of Concern

Priority organics

Nutrients

Organic enrichment/low d.o.

Pathogens

Noxious aquatic plants

Turbidity
Exotic species

3. Fuller Brook MA 72-18

Pollutants of Concern

Cause unknown

Organic enrichment/low d.o.

Other habitat alterations

Pathogens

Noxious aquatic plants

4. Rosemary Brook MA 72-25

Pollutants of Concern

Nutrients

Organic enrichment/low d.o.

Pathogens

Taste, odor and color

Suspended solids

Turbidity

Adopted _____
